

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: LUMARK

Report Number: P970807

Luminaire Tested: **NAV-SB6C-722-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P970807
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6C-722-U-T3
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 2200K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38480.6 lumens
Efficiency: N/A
Efficacy: 127.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

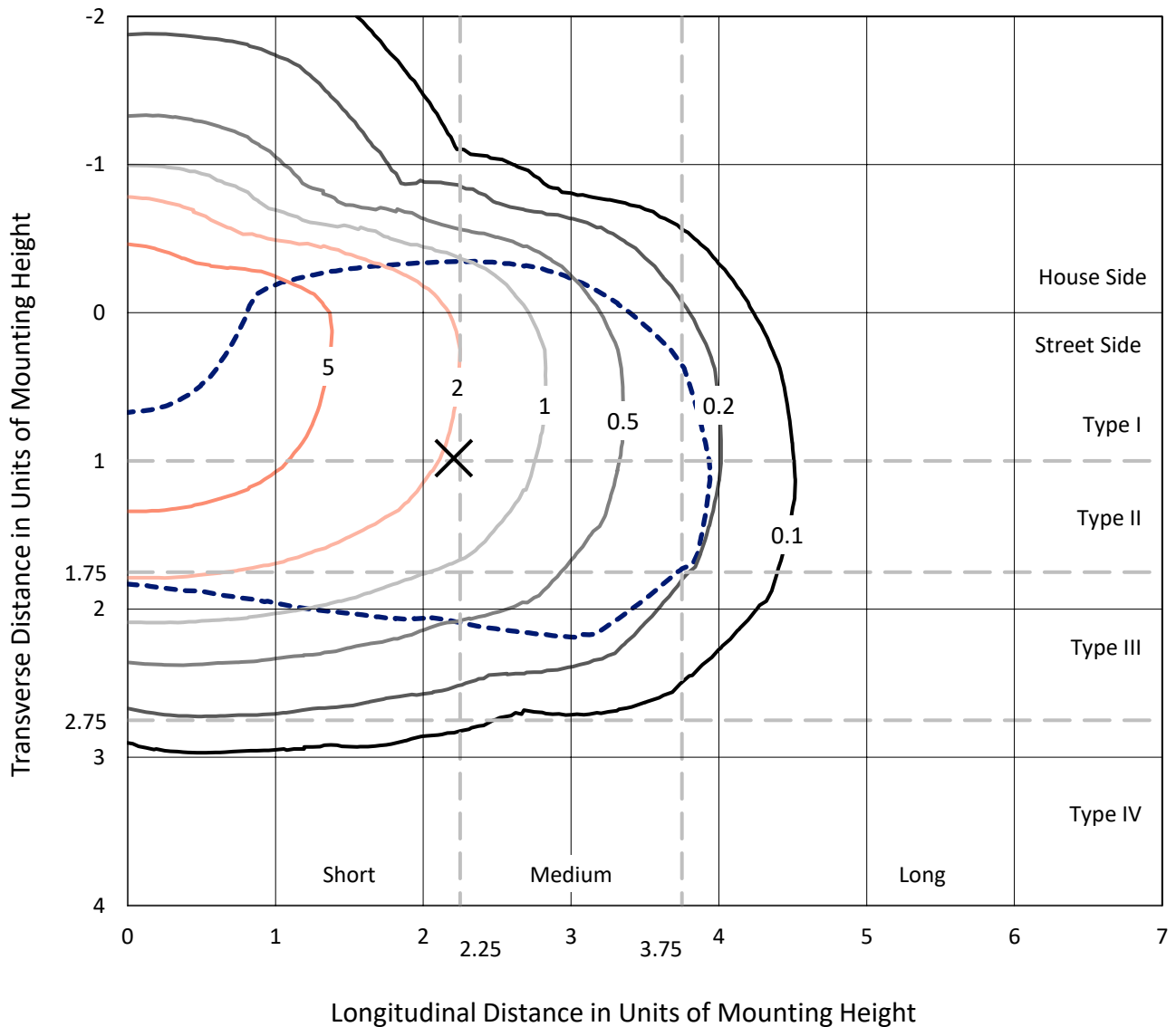
Input Watts (W): 300.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P970807
 CATALOG NUMBER: NAV-SB6C-722-U-T3

Iso-Footcandle Lines of Horizontal Illumination

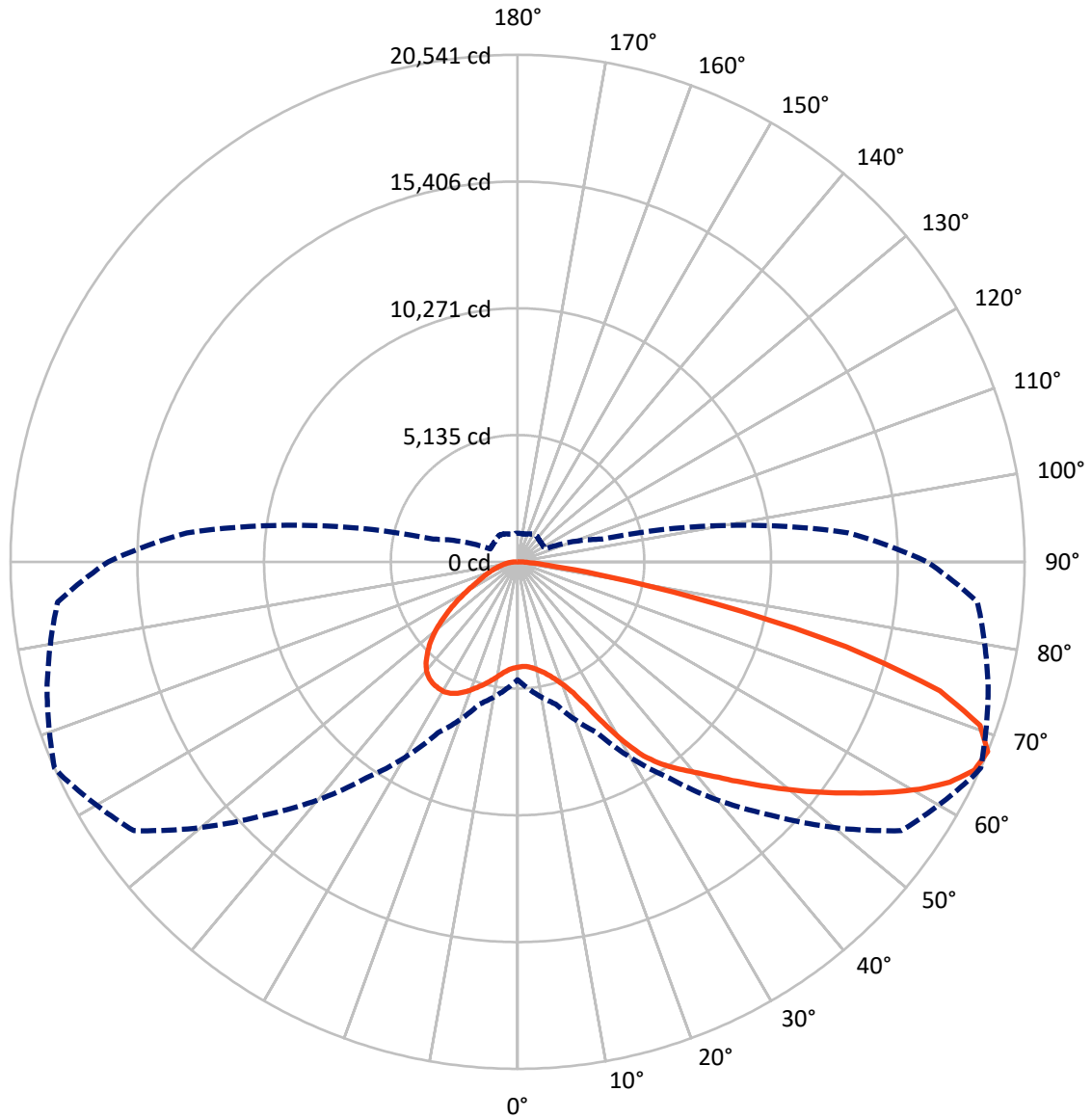
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.7 fc
 Type III - Short - N/A

REPORT NUMBER: P970807
CATALOG NUMBER: NAV-SB6C-722-U-T3

Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P970807
 CATALOG NUMBER: NAV-SB6C-722-U-T3

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9568.1	0.0	9568.1
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	28912.5	0.0	28912.5
	% Fixture	75.1	0.0	75.1
Total	Lumens	38480.6	0.0	38480.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	423.2	1.1
10°-20°	1398.0	3.6
20°-30°	2694.7	7.0
30°-40°	4724.7	12.3
40°-50°	7024.1	18.3
50°-60°	8903.8	23.1
60°-70°	8712.1	22.6
70°-80°	4155.8	10.8
80°-90°	444.1	1.2
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	38480.6	100.0
0°-180°	38480.6	100.0

Coefficient of Utilization

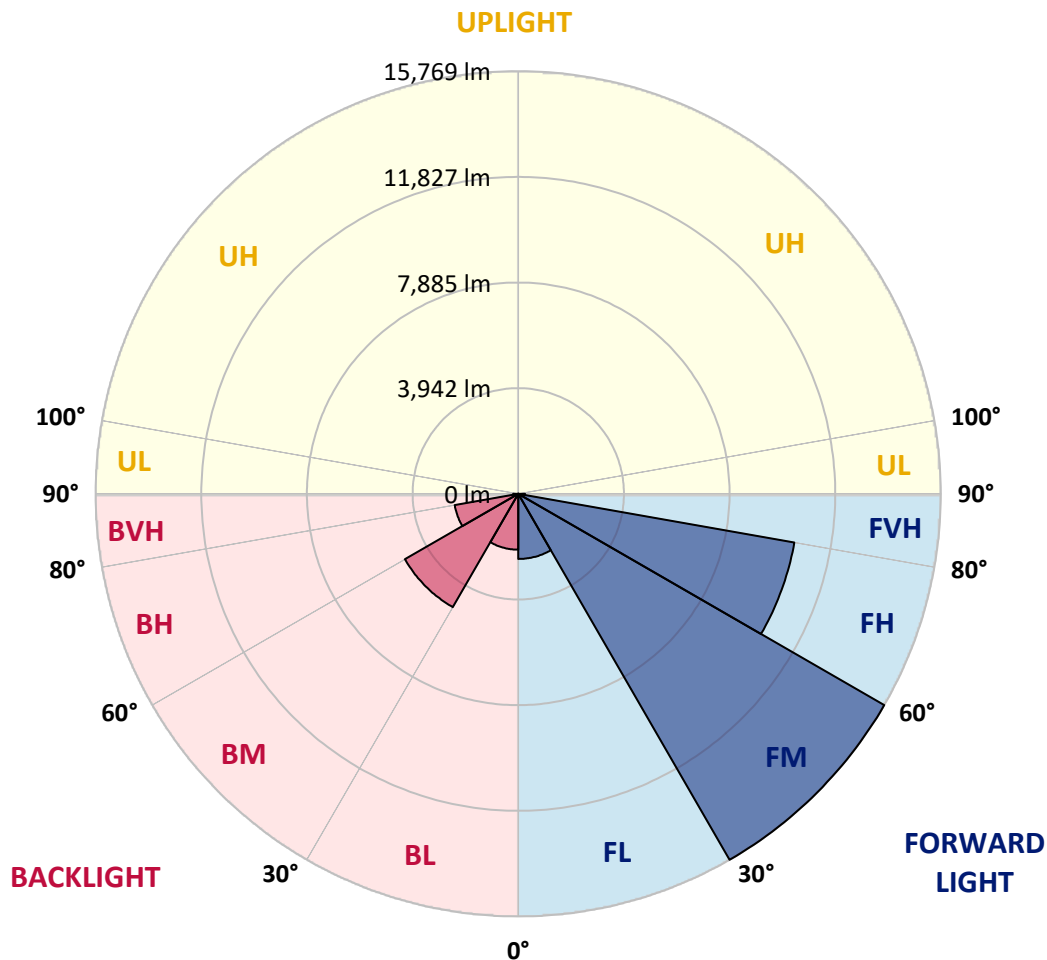


REPORT NUMBER: P970807
 CATALOG NUMBER: NAV-SB6C-722-U-T3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2431.6	6.3			
FM (30°-60°)	15769.0	41.0			
FH (60°-80°)	10460.1	27.2			G4/12000
FVH (80°-90°)	251.8	0.7			G3/500
BL (0°-30°)	2084.3	5.4	B3/2500		
BM (30°-60°)	4883.7	12.7	B3/5000		
BH (60°-80°)	2407.8	6.3	B3/2500		G3/2500
BVH (80°-90°)	192.3	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4
 Type III Short



REPORT NUMBER: P970807
 CATALOG NUMBER: NAV-SB6C-722-U-T3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	4268.0	4268.0	4268.0	4268.0	4268.0	4268.0	4268.0	4268.0	4268.0	4268.0	4268.0
2.5°	4223.5	4247.8	4241.8	4231.6	4229.6	4233.7	4239.7	4245.8	4243.7	4253.9	4270.0
5°	4211.4	4235.6	4233.7	4233.7	4241.8	4257.8	4268.0	4278.1	4268.0	4280.1	4302.3
7.5°	4219.5	4237.7	4245.8	4253.9	4274.0	4304.4	4328.7	4350.9	4338.7	4352.9	4381.3
10°	4322.6	4336.8	4344.9	4344.9	4359.0	4393.4	4417.6	4458.0	4448.0	4470.2	4506.6
12.5°	4510.6	4524.8	4524.8	4516.7	4526.8	4549.1	4557.2	4601.6	4583.4	4619.8	4656.2
15°	4741.1	4769.4	4747.2	4733.0	4737.0	4759.3	4757.2	4791.7	4773.4	4803.8	4836.2
17.5°	4995.8	5032.2	4995.8	4993.8	4985.7	5010.0	5012.0	5042.4	5010.0	5032.2	5054.5
20°	5297.1	5347.6	5317.3	5327.4	5309.2	5319.3	5329.5	5374.0	5323.3	5339.5	5333.5
22.5°	5721.7	5782.3	5749.9	5788.4	5776.3	5768.2	5766.1	5845.0	5766.1	5772.2	5713.6
25°	6340.3	6413.1	6356.5	6409.1	6409.1	6435.4	6465.7	6566.8	6435.4	6396.9	6245.3
27.5°	7254.2	7327.0	7215.8	7248.1	7238.0	7302.7	7270.3	7521.0	7379.5	7316.9	7011.6
30°	8354.1	8483.4	8273.2	8265.1	8254.9	8358.1	8404.6	8570.3	8426.8	8364.1	7996.2
32.5°	9542.9	9678.4	9427.6	9354.9	9316.4	9379.1	9340.7	9474.1	9375.1	9278.0	8823.1
35°	10800.4	10933.9	10695.3	10553.7	10400.1	10268.7	10131.2	10165.5	10072.6	9925.0	9453.9
37.5°	11989.2	12233.9	11981.1	11829.5	11546.4	11289.7	10905.6	10745.8	10658.9	10523.5	10048.3
40°	13200.3	13339.8	13147.7	13018.3	12711.0	12308.7	11694.0	11356.4	11239.1	11107.7	10705.4
42.5°	14091.9	14225.4	14122.2	14033.3	13792.7	13325.6	12531.0	12108.5	11938.7	11791.1	11449.5
45°	14799.5	14898.6	14833.9	14866.2	14763.1	14310.2	13398.4	12915.2	12739.3	12559.3	12290.5
47.5°	15084.6	15189.7	15292.8	15484.9	15660.8	15327.2	14330.4	13788.6	13602.6	13418.6	13153.8
50°	15052.2	15159.4	15458.6	15867.0	16412.9	16301.7	15313.1	14718.6	14546.8	14336.6	14091.9
52.5°	14793.4	14914.8	15298.9	15978.2	16847.6	17031.6	16313.8	15679.0	15517.3	15266.6	15021.9
55°	14114.1	14186.9	14763.1	15725.4	16950.7	17541.0	17294.4	16702.1	16540.3	16190.5	15923.6
57.5°	12854.5	12959.7	13798.8	15044.1	16691.9	17886.8	18155.7	17777.6	17621.9	17118.5	16839.5
60°	11210.8	11378.6	12338.9	13899.8	16032.8	17884.8	18938.1	18835.0	18705.6	18032.3	17741.2
62.5°	9350.8	9544.9	10468.8	12282.4	14880.3	17377.3	19427.4	19720.6	19653.9	18875.5	18503.4
65°	7181.4	7314.8	8234.7	10189.8	13087.1	16287.6	19484.0	20325.0	20337.2	19516.3	18901.7
67.5°	4781.5	5165.7	5964.3	7646.4	10685.2	14506.3	18986.7	20424.1	20541.4	19736.7	18701.5
70°	2333.1	2838.6	3621.0	4969.6	7646.4	11774.9	17686.6	19611.3	19872.2	19093.8	17508.7
72.5°	968.4	1132.2	1558.8	2452.4	4389.4	7945.6	15074.5	17407.6	17890.9	16918.3	14720.6
75°	653.0	707.7	891.6	1257.6	1999.6	3918.3	10871.2	12979.9	13758.3	12777.8	10444.5
77.5°	503.4	537.8	649.0	879.4	1188.8	1481.9	5818.7	7822.3	8224.6	7614.1	5434.5
80°	396.3	422.5	485.2	640.9	843.1	792.5	1983.4	3544.2	3776.7	3168.2	1746.8
82.5°	343.7	353.8	347.8	434.7	560.1	463.0	651.0	1308.1	1443.6	1047.2	570.1
85°	248.7	277.0	289.2	268.9	297.2	234.5	266.9	463.0	509.5	454.9	321.4
87.5°	101.1	149.6	184.0	173.8	109.2	66.7	82.9	135.5	155.7	169.8	105.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P970807
 CATALOG NUMBER: NAV-SB6C-722-U-T3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4268.0	4268.0	4268.0	4268.0	4268.0	4268.0	4268.0	4268.0	4268.0	4268.0	4268.0
2.5°	4272.0	4286.2	4296.3	4308.5	4316.5	4328.7	4352.9	4367.1	4369.1	4379.2	4377.2
5°	4310.4	4330.7	4352.9	4385.3	4421.6	4452.0	4498.5	4530.8	4543.0	4553.0	4551.1
7.5°	4393.4	4421.6	4462.1	4518.7	4571.3	4611.7	4668.4	4706.7	4745.1	4759.3	4761.3
10°	4516.7	4557.2	4615.8	4692.6	4749.2	4801.7	4860.3	4892.7	4931.2	4947.4	4955.4
12.5°	4670.3	4712.7	4789.6	4896.7	4949.3	4985.7	5006.0	4997.9	5006.0	5020.1	5024.1
15°	4846.2	4892.7	4979.7	5094.9	5131.4	5099.0	5054.5	5014.0	5007.9	5012.0	5026.2
17.5°	5054.5	5088.8	5190.0	5287.0	5260.7	5127.3	5030.2	4965.5	4933.1	4923.1	4937.2
20°	5345.6	5345.6	5428.5	5489.2	5313.3	5086.9	4935.2	4830.1	4763.4	4735.0	4728.9
22.5°	5699.4	5667.1	5719.6	5677.2	5303.1	4973.6	4763.4	4581.3	4480.3	4439.9	4433.7
25°	6148.3	6109.8	6095.7	5832.9	5230.4	4793.6	4452.0	4231.6	4142.6	4120.4	4124.5
27.5°	6825.6	6728.5	6544.5	5917.7	5096.9	4510.6	4088.1	3883.8	3833.3	3835.3	3841.4
30°	7727.3	7533.2	7082.3	5932.0	4878.6	4110.4	3716.0	3570.5	3546.2	3556.3	3590.7
32.5°	8562.3	8378.3	7632.3	5867.2	4543.0	3718.1	3382.5	3285.4	3249.0	3261.1	3277.3
35°	9217.3	9166.8	8141.8	5776.3	4130.5	3350.1	3083.2	3000.4	2929.6	2913.4	2925.6
37.5°	9836.0	9815.8	8523.9	5648.9	3722.1	3089.2	2842.6	2733.5	2630.4	2573.8	2575.7
40°	10515.4	10495.1	8774.6	5452.8	3360.3	2862.8	2626.4	2482.8	2355.3	2252.2	2262.4
42.5°	11279.6	11160.3	8893.8	5171.7	3052.9	2670.7	2450.4	2256.3	2088.5	1993.5	1999.6
45°	12114.6	11845.7	8891.9	4813.9	2794.1	2494.8	2262.4	1987.4	1831.8	1742.8	1738.7
47.5°	13000.1	12500.7	8782.7	4417.6	2543.4	2300.8	1971.3	1761.0	1657.8	1603.3	1591.1
50°	13914.0	13113.3	8596.7	3962.8	2286.7	2080.4	1789.2	1645.7	1566.9	1516.4	1498.1
52.5°	14773.2	13669.3	8372.2	3447.2	2025.8	1866.1	1708.4	1597.3	1514.3	1457.8	1433.5
55°	15571.8	14148.5	8054.9	2919.5	1813.5	1722.6	1670.0	1577.0	1481.9	1415.2	1389.0
57.5°	16281.5	14459.9	7506.9	2424.1	1661.9	1623.5	1629.5	1542.6	1433.5	1376.9	1340.5
60°	16871.8	14688.4	6696.2	1965.1	1538.6	1526.4	1566.9	1477.9	1350.5	1285.9	1257.6
62.5°	17225.6	14684.3	5701.5	1609.4	1433.5	1437.5	1484.0	1397.1	1267.6	1207.0	1188.8
65°	17195.3	14324.4	4609.7	1376.9	1332.4	1336.4	1397.1	1308.1	1198.9	1162.6	1160.5
67.5°	16586.8	13447.0	3536.1	1225.2	1221.2	1239.3	1310.2	1247.4	1156.5	1152.4	1158.5
70°	14939.1	11625.3	2547.4	1103.9	1105.9	1132.2	1225.2	1209.0	1134.3	1142.4	1140.3
72.5°	11979.1	8863.5	1710.4	976.5	978.6	1021.0	1144.3	1178.8	1112.0	1219.1	1235.3
75°	7978.0	5527.6	1099.8	841.1	843.1	897.7	1073.6	1120.1	1051.3	1215.1	1225.2
77.5°	3833.3	2484.8	796.6	707.7	707.7	758.2	928.0	1002.8	895.6	944.1	865.3
80°	1324.3	934.1	626.8	570.1	558.0	592.3	782.4	869.4	772.3	711.7	667.2
82.5°	521.6	485.2	503.4	442.8	402.3	424.6	608.5	717.7	568.2	513.5	511.5
85°	299.2	315.4	355.9	293.2	232.5	260.8	446.8	515.6	428.7	378.1	386.1
87.5°	80.9	111.2	163.8	151.6	105.2	111.2	212.3	285.1	246.6	190.0	196.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)